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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/973,045	10/10/2001	Yoon-Jick Lee	Q64313	5064
7590	09/17/2004		EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC Suite 800 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			NGUYEN, JOSEPH D	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 09/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/973,045	LEE, YOON-JICK
	Examiner	Art Unit
	Joseph D Nguyen	2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 30 June 2004.
- 2a) This action is **FINAL**.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) 16 is/are allowed.
- 6) Claim(s) 1-15 and 17-21 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 10 October 2001 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-6, 9, and 18-21 are rejected under 35 U.S.C. 102(a) as being anticipated by Yabuki (5,796,351).

Regarding claim 1, Yabuki discloses a system for providing an exhibition information service through wireless communication (abstract, fig. 1), comprising:

a) wireless connection devices for preparing for connection to a wireless terminal

in a service region (zone) (abstract, #30 fig. 4, col. 5 line 1 thru col. 6 line 15), and

outputting information related to the wireless terminal through a network (abstract, fig.

1-3, col. 3 line 35 thru col. 4 line 58); and

b) an exhibition information server for inputting the information output by the network and processing an information service corresponding to the information input from the network (abstract, #10 fig. 4, col. 3 line 35 thru col. 4 line 58).

Regarding claim 2, Yabuki further discloses the system according to claim 1, wherein each of the wireless connection devices inherently respectively comprise:

a) a wire communication processing unit for transmitting a signal from the wireless terminal to the exhibition information server through the network (abstract, #14

fig. 4, col. 5 lines 1-34), and receiving data from the exhibition information server through the network (abstract, fig. 1-3, col. 5 lines 16-34); and

b) a wireless communication processing unit (#13 fig. 1) for receiving the signal from the wireless terminal (#40 fig. 1), and transmitting the data through air according to a data transmission request signal output from the exhibition information server through the network and received in the wire communication processing unit (abstract, fig. 1-3, col. 4 line 37 thru col. 5 line 34).

Regarding claim 3, Yabuki further discloses the system according to claim 2,

wherein said each of the wireless connection devices further comprise a control unit (abstract, #36 fig. 5) for setting up an address (identification code) for connection and communicating with the wireless terminal, when receiving a connection request signal from the wireless terminal, and for controlling the connection or disconnection of the wireless terminal (abstract, fig. 1-5, col. 5 lines 1-34).

Regarding claim 4, Yabuki further discloses the system according to claim 3,  
wherein said each of the wireless connection devices further comprise a data converting unit (decoder) for converting the signal from the wireless terminal into data which can be transmitted through the network, and also converting data from the exhibition information server into data which can be transmitted through air (abstract, fig. 1-4, col. 3 lines 35 thru col. 4 lines 64).

Regarding claim 5, Yabuki further discloses the system according to claim 1,  
wherein the exhibition information server inherently comprises:

- a) an interface processing unit (abstract, #13 fig. 1, col. 5 lines 1-34) for performing a communication between the wireless terminal and at least one of the wireless connection devices according to the information related to the wireless terminal output through the network;
- b) a connection/disconnection processing unit for reading the data processed in the interface processing unit, and enabling the wireless connection devices to set up the connection or disconnection to/from the wireless terminal (fig. 1-5, col. 5 lines 1-34);
- c) an exhibition menu providing unit for providing data including an exhibition information menu so that the wireless terminal connected to said at least one of the wireless connection devices can read information about the exhibits, when the connection setup is processed by the connection/disconnection processing unit (when a user operates the wireless terminal to select a target exhibition object from the exhibition objects which means the exhibition unit including an exhibition information menu for user to make the selection) (abstract, fig. 1-3, col. 3 line 35 thru col. 4 line 58); and
- d) an input/output data processing unit for receiving data from said at least one of the wireless connection devices, and outputting information corresponding to the menu selection signal from the wireless terminal according to the output data from the exhibition menu providing unit (abstract, fig. 1-3, col. 4 line 37 thru col. 5 line 34).

Regarding claim 6, Yabuki further discloses the system according to claim 5, wherein the exhibition information server further comprises an exhibition database for

storing information related to the exhibits in order to provide the exhibition information of the exhibits (abstract, #12 fig. 1).

Regarding claim 9, Yabuki discloses a method for providing an exhibition information service through wireless communication (abstract, fig. 1), comprising:

a) a wireless connection step for preparing for connection to a wireless terminal in a service region (zones) (fig. 1-5, col. 5 line 1 thru col. 6 line 15), and outputting information related to the wireless terminal through a network (abstract, fig. 1-5, col. 3

line 35 thru col. 4 line 58); and

b) an exhibition information service step for inputting the information output by the network and processing an information service corresponding to the information input from the network (abstract, fig. 1-3, col. 3 line 35 thru col. 4 line 58).

Regarding claim 18, Yabuki discloses a method for providing an exhibition information service through wireless communication (abstract, fig. 1), comprising the steps of:

a) preparing for connection for wireless communication with a wireless terminal in a service region (zone) (fig. 1-5, col. 5 line 1 thru col. 6 line 15);

b) wireless-connecting to the wireless terminal according to a connection signal (abstract, fig. 1-3, col. 3 lines 35-52); and

c) transmitting an initial screen to provide the exhibition information service to the wireless terminal (when a user manipulates the wireless terminal to select a target exhibition object from the exhibition objects from the display which means the initial

screen was transmitted to the wireless to provide the exhibition information service to the wireless terminal) (abstract, fig. 1-3, col. 3 line 35 thru col. 4 line 58).

Regarding claim 19, Yabuki further discloses the method according to claim 18, further comprising a step of providing the exhibition information service according to a selection signal of the initial screen from the wireless terminal (fig. 3, col. 4 lines 14-64).

Regarding claim 20, Yabuki discloses a method for providing an exhibition information service through wireless communication (abstract, fig. 1-3), comprising the steps of:

a) preparing for connection for wireless communication with a wireless connection device in a service region (zone) (fig. 1-5, col. 5 line 1 thru col. 6 line 15); and

b) receiving an initial screen from the wireless connection device in order to read exhibition information (since the wireless terminal displays the displaying information to the user for manipulating to select a target exhibition object from the exhibition objects from the display which means the initial screen is receiving from the wireless connection device in order to read exhibition information) (abstract, fig. 1-3, col. 3 line 35 thru col. 4 line 58).

Regarding claim 21, Yabuki further discloses the method according to claim 20, further comprising the steps of:

a) selecting a menu in the initial screen in order to request the exhibition information service (abstract, fig. 2-3, col. 4 lines 16-64); and

b) receiving information corresponding to the menu selected by the wireless terminal (abstract, fig. 3, col. 4 lines 39-64).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 10-11, 14-15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki (5,796,351).

Regarding claim 10, Yabuki further discloses the method according to claim 9, wherein the wireless connection step comprises the steps of:

a) judging whether a connection request signal is received from the wireless terminal (fig. 3, col. 4 lines 4-64);  
b) transmitting a connection command signal between a wireless connection device and the wireless terminal (fig. 1-3, col. 3 lines 4-64); and  
c) providing initial screen data including an exhibition information menu, to the wireless terminal (when the user of the terminal (40) manipulates the switch buttons to move a cursor on the display for displaying information which means the initial screen data including an exhibition information menu) (fig. 2, col. 4 col. 15-22).

However, Yabuki does not specifically disclose judging whether a connection request signal is received from the wireless terminal. But it would have been obvious to

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one ordinary skilled in the art at the time the invention was made to modify the Yabuki system of the control unit (10) receives the signal request from the wireless terminal (40) and retrieves the exhibit information to provide the information to the wireless terminal (user) with judging whether the request signal is received from the wireless terminal in order to provide the exact exhibition information request to user.

Regarding claim 11, Yabuki further discloses the method according to claim 10, wherein the exhibition information service step comprises the steps of:

- a) judging whether a selection signal for a specific exhibit is received from the wireless terminal according to the initial screen data (fig. 3, col. 4 lines 39-64); and
- b) providing exhibition information of the exhibit corresponding to the selection signal (fig. 3, col. 4 lines 39-64).

Regarding claim 14, Yabuki further discloses the method according to claim 11, wherein the step of providing the exhibition information of the selected exhibit comprises the steps of:

- a) confirming a connection state between the wireless terminal and the wireless connection device for providing the exhibition information service (when the wireless terminal (40) and the control unit (10) communicate and transfer the exhibition information per request of wireless terminal which means they are confirming a connection state between them before the exhibition information is providing to the user's terminal) (fig. 1-3, col. 3 line 35 thru col. 4 line 64); and
- b) providing the exhibition information for the selected exhibit according to the confirmed information (fig. 3).

Regarding claim 15, Yabuki further discloses the method according to claim 14, wherein the step of confirming the wireless connection device for providing the exhibition information service, comprises the steps of:

- a) detecting a position of the wireless connection device connected to the wireless terminal, and a position of the exhibit selected by the wireless terminal (fig. 3-4, col. 1 lines 33-37); and
- b) judging whether the detected wireless connection device is set up to provide the exhibition information service for the selected exhibit to the wireless terminal (fig. 3-4, col. 4 line 37 thru col. 5 line 34).

However, Yabuki does not specifically disclose detecting a position of the wireless connection device connected to the wireless terminal, and a position of the exhibit selected by the wireless terminal. But it would have been obvious to one ordinary skilled in the art that when the wireless terminal (400) connects with the wireless connection device 33A or 33B fig. 5 to receive the exhibit selected by the wireless terminal (400) which means the wireless connection device (33A or 33B fig. 5) detecting which position of the wireless connection device connected to the wireless terminal, and a position of the exhibit selected by the wireless terminal in order to provide the exact exhibition information request to user.

Regarding claim 17, Yabuki further discloses the method according to claim 14, wherein the step for providing the exhibition information of the selected exhibit comprises the steps of:

a) providing a detailed menu corresponding to the exhibition information of the selected exhibit according to the selection signal (when the user of the terminal (40) manipulates the switch buttons to move a cursor on the display for displaying exhibition information which means the server providing the detail menu corresponding to the exhibition information) (fig. 2-3, col. 4 lines 15-58); and

b) providing detailed information related to the selected exhibit according to the selection signal of the detailed menu (fig. 2-3, col. 4 lines 15-58).

5. Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki (5,796,351) in view of Tanikoshi et al. (5,598,572).

Regarding claim 7, Yabuki further discloses the system according to claim 6, wherein the exhibition information server further comprises a wireless connection device database for storing position (location) information of the wireless connection device connected to the wireless terminal, and data related to one of the exhibits, which the wireless terminal selects in order to read the exhibition information (abstract, fig. 1-5, col. 1 lines 34-37, col. 3 line 35 thru col. 4 line 58, and 5 line 1 thru col. 6 line 15). However, Yabuki does not specifically disclose database for storing position information of the wireless connection device connected to the wireless terminal.

Tanikoshi et al. teaches database for storing position information of the wireless connection device connected to the wireless terminal (abstract, #106 fig. 1, col. 5 lines 3-58). Therefore, it would have been obvious to one ordinary skilled in the art at the time the invention was made to modify the Yabuki system with the teaching of

Tanikoshi et al. of database for storing position information of the wireless connection device connected to the wireless terminal in order to provide the information dependent of position.

Regarding claim 8, Yabuki further discloses the system according to claim 7, wherein the exhibition information server further comprises a wireless connection information database (#12 fig. 1 and fig. 3-6, col. 5 line 46 thru col. 6 line 56) for storing the information of the wireless terminal connected to the wireless connection device.

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6. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki (5,796,351) in view of Albukerk et al. (5,929,848).

Regarding claim 12, Yabuki further discloses the method according to claim 11, wherein, the exhibition information relates to an object, the exhibition information comprises information of the selected exhibit object (abstract, fig. 3). However, Yabuki does not specifically disclose wherein, when the exhibition information relates to an art object, the exhibition information comprises explanations of the selected art object and information related to the artist thereof.

Albukerk et al. teaches the exhibition information relates to an art object, the exhibition information comprises explanations of the selected art object and information related to the artist thereof (abstract, fig. 3-5, col. 8 line 56 thru col. 10 line 52). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify the Sakurai et al. system with the teaching of Albukerk et al. in order to provide the customer with the information related to the exhibition of art.

Regarding claim 13, Albukerk et al. further discloses the method according to claim 12, wherein the explanations of the art object comprise at least one of a genre, constitution, representation technique, production process, appreciation method and appreciation article (fig. 2-4). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify the Yabuki system with the teaching of Albukerk et al. in order to provide the customer with the detail information related to the exhibition of art.

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7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yabuki (5,796,351) in view of Kennedy, III et al. (5,966,658).

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Regarding claim 16, Yabuki discloses the method according to claim 15. However, Yabuki does not specifically disclose the steps of:

- a) transmitting a disconnection command signal from the wireless terminal to the wireless connection device, when the detected wireless connection device cannot provide the exhibition information service; and
- b) connecting the wireless terminal disconnected from the wireless connection device according to the disconnection command, to another wireless connection device that is set up to provide the exhibition information service, and providing the exhibition information service according to the selection signal.

Kennedy, III et al. teaches the method steps of:

a) transmitting a disconnection command signal from the wireless terminal to the wireless connection device, when the detected wireless connection device cannot provide the exhibition information service (fig. 1-6, col. 5 line 7 thru col. 6 line 31); and

b) connecting the wireless terminal disconnected from the wireless connection device according to the disconnection command, to another wireless connection device that is set up to provide the exhibition information service, and providing the exhibition information service according to the selection signal (fig. 1-6, col. 5 line 7 thru col. 6 line 31). Therefore, it would have been obvious to one ordinary skilled in the art at the time the invention was made to modify the Yabuki et al. system with the teaching of Kennedy, III et al. of transmitting command to disconnect and connect the wireless terminal in order to continue receive the exhibition information request from the service provider.

***Response to Arguments***

8. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

9. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

703 308-9051, (for formal communication intended for entry)

Or:

(703) 305-9509 (for informal or draft communications, please label  
"PROPOSED" OR "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121  
Crystal Drive, Arlington, VA. Sixth floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the  
examiner should be directed to Joseph D Nguyen whose telephone number is (703)  
605-1301. The examiner can normally be reached on 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's  
supervisor, William Trost can be reached on (703) 308-5318. The fax phone numbers  
for the organization where this application or proceeding is assigned are (703) 872-9314  
for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or  
proceeding should be directed to the receptionist whose telephone number is (703) 306-  
0377.

Joseph Nguyen



Sept. 14, 2004



WILLIAM TROST  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600